NAME OF WORK:- Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th phase and Muneshwara Layout and Surrounding areas in Ward No 03 of Yelahanka Division (Package No 12)

First and Final Bill

Quality Control Reports

QC ABSTRACT

NAME OF WORK: Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	69.124	10	10
10	RCC(M20)	Compressive Strength(7days and 28days)	58 set /2700-2750 cum	2726.3	116	116
11	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	12 set /400-450 cum	415.9	24	24
12	GSB	SIEVE ANALYSIS	One Test		1	1
13	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
14	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
15	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
16	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
17	TACK COAT	Rate of spread	One Test		1	1

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-09-21-30** **Date: 16-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.4	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-09-21-30 **Date: 30-08-21**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Kaveri Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 25-08-21

Sample Type /Size : Precast Cover Slab (250 mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/08/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	586.9	18.6	17.3	21.6
2	Cover Slab-2	200.49	250.52	3.122	31564	589.3	18.7	17.4	21.7
3	Cover Slab-3	200.50	250.51	3.118	31567	581.5	18.4	17.1	21.4

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

CIVIL Pro
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Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 20/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Kaveri Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 25-08-21

Customer ID : Drain Bottom Slab Concrete (2nd Cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/08/2021	20/09/2021	151.26 X 151.46 X 151.64	22909	8.815	545.3	23.8	23.2
2	Drain Bottom Slab Concrete	M20	23/08/2021	20/09/2021	149.41 X 149.61 X 150.92	22353	8.153	506.5	22.7	
3	Drain Bottom Slab Concrete	M20	23/08/2021	20/09/2021	151.94 X 151.30 X 151.86	22988	8.523	530.5	23.1	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-21-30** **Date: 23/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Kaveri Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 28-08-21

Customer ID : Drain Side Wall Concrete (4TH CROSS)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/08/2021	23/09/2021	149.60 X 151.82 X 150.32	22713	8.815	526.9	23.2	22.9
2	Drain Side Wall Concrete	M20	26/08/2021	23/09/2021	150.19 X 150.78 X 151.26	22647	8.153	499.0	22.0	
3	Drain Side Wall Concrete	M20	26/08/2021	23/09/2021	149.38 X 150.30 X 150.06	22451	8.523	528.6	23.5	

* The results obtained are satisfactory as per standard requirements.

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 06/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Kaveri Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 01-09-21

Customer ID : Culvert Bottom Slab Concrete (New Age Pre School Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	30/08/2021	06/09/2021	150.47 X 150.10 X 149.75	22586	8.258	410.6	18.2	18.4
2	Culvert Bottom Slab Concrete	M20	30/08/2021	06/09/2021	151.64 X 149.23 X 150.10	22630	8.841	410.1	18.1	
3	Culvert Bottom Slab Concrete	M20	30/08/2021	06/09/2021	150.55 X 150.06 X 150.97	22591	9.080	428.0	18.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-21-30** **Date: 30/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Kaveri Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 04-09-21

Customer ID : Culvert Side Wall Concrete (New Age Pre School Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	150.20 X 151.84 X 151.20	22805	8.815	546.0	23.9	23.5
2	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	150.23 X 151.00 X 151.30	22686	8.153	513.9	22.7	
3	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	149.01 X 151.85 X 150.53	22627	8.523	538.0	23.8	

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-09-21-30**	**Date: 21-09-21**
Project Name	:	Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12) **Improvements and Development of Roads at Kaveri Layout and Surrounding Areas in Attur Ward No-03.**	
Agency	:	Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22	
Date of Receipt	:	20-09-21	
Type of Mix	:	DBM (Dense Bituminous Macadam) (Muneshwara layout- 8th Cross Road)	
Date of test	:	20-09-21	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.6	4.8
4	Average percentage	%	4.7	

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2021-09-21-30** **Date: 16-09-21**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Kaveri Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 13-09-21

Type of Mix : BC(Bitumenous Concrete)

Date of test : 13-09-21

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-09-21-30** **Date: 11-09-21**
Project Name	:	Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12) **Improvements and Development of Roads at AMS Layout and Surrounding Areas in Attur Ward No-03.**
Agency	:	Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22
Date of Receipt	:	13-08-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	14-08-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Date
BANGALORE

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-09-21-30** **Date: 28-08-21**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at AMS Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 24-08-21

Sample Type /Size : Precast Cover Slab (250 mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 24/08/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	586.9	18.6	17.3	21.6
2	Cover Slab-2	200.49	250.52	3.122	31564	589.3	18.7	17.4	21.7
3	Cover Slab-3	200.50	250.51	3.118	31567	581.5	18.4	17.1	21.4

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪವಲಯ ಉಪವಿಭಾಗ,
ಜೆ.ಎ.ಎ. ಬೆಂಗಳೂರು-106

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 02/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at AMS Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 28-08-21

Customer ID : Drain Bottom Slab Concrete (3rd Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/08/2021	02/09/2021	151.20 X 149.27 X 149.84	22571	8.258	413.3	18.3	18.3
2	Drain Bottom Slab Concrete	M20	26/08/2021	02/09/2021	151.96 X 150.51 X 149.90	22871	8.841	422.2	18.5	
3	Drain Bottom Slab Concrete	M20	26/08/2021	02/09/2021	150.61 X 150.28 X 151.28	22633	9.080	411.7	18.2	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 25/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at AMS Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 30-08-21

Customer ID : Drain Bottom Slab Concrete (5th Main Road (Nativity School road))

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/08/2021	25/09/2021	151.83 X 151.41 X 150.66	22989	8.815	533.2	23.2	23.3
2	Drain Bottom Slab Concrete	M20	28/08/2021	25/09/2021	152.00 X 149.94 X 151.26	22791	8.153	520.1	22.8	
3	Drain Bottom Slab Concrete	M20	28/08/2021	25/09/2021	151.83 X 150.79 X 151.40	22895	8.523	549.1	24.0	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 06/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at AMS Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK D/EPMT-01/W.O/44/2021-22

Date of Receipt : 01-09-21

Customer ID : Drain Side Wall Concrete (4th A Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	30/08/2021	06/09/2021	150.01 X 149.13 X 151.15	22371	8.258	414.0	18.5	18.5
2	Drain Side Wall Concrete	M20	30/08/2021	06/09/2021	151.98 X 150.76 X 149.91	22912	8.841	433.5	18.9	
3	Drain Side Wall Concrete	M20	30/08/2021	06/09/2021	149.67 X 150.24 X 151.54	22487	9.080	407.2	18.1	

• The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Date BANGALORE

FOR CIVIL Pro.
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 11/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at AMS Layout and Surrounding Areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 06-09-21

Customer ID : Culvert Bottom Slab Concrete (3rd Main Road (Bellow High Tension Wire))

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	04/09/2021	11/09/2021	151.05 X 149.96 X 150.69	22651	8.258	411.9	18.2	18.2
2	Culvert Bottom Slab Concrete	M20	04/09/2021	11/09/2021	151.39 X 149.66 X 150.33	22657	8.841	409.7	18.1	
3	Culvert Bottom Slab Concrete	M20	04/09/2021	11/09/2021	151.33 X 149.76 X 149.89	22664	9.080	415.0	18.3	

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-09-21-30** **Date: 16-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 30/08/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 25-08-21

Customer ID : Drain Bottom Slab Concrete (2nd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/08/2021	30/08/2021	151.13 X 150.59 X 149.52	22758	8.258	409.7	18.0	18.2
2	Drain Bottom Slab Concrete	M20	23/08/2021	30/08/2021	151.57 X 149.68 X 149.87	22686	8.841	416.2	18.3	
3	Drain Bottom Slab Concrete	M20	23/08/2021	30/08/2021	150.41 X 151.72 X 149.07	22820	9.080	417.8	18.3	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 23/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK D/EPMT-01/W.O/44/2021-22

Date of Receipt : 28-08-21

Customer ID : Drain Side Wall Concrete (3rd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/08/2021	23/09/2021	150.74 X 149.67 X 150.52	22562	8.815	539.7	23.9	23.3
2	Drain Side Wall Concrete	M20	26/08/2021	23/09/2021	149.82 X 149.39 X 149.65	22382	8.153	502.7	22.5	
3	Drain Side Wall Concrete	M20	26/08/2021	23/09/2021	151.07 X 150.32 X 151.09	22708	8.523	536.3	23.6	

• The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-21-30** **Date: 30/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 04-09-21

Customer ID : Culvert Side Wall Concrete (Aadhithya Layout Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 30/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	149.48 X 151.52 X 150.80	22649	8.815	524.7	23.2	23.0
2	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	151.65 X 149.04 X 151.29	22602	8.153	504.1	22.3	
3	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	150.36 X 150.50 X 149.40	22629	8.523	534.2	23.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 02/10/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 06-09-21

Customer ID : Cement Concrete Pavement (3rd Cross (RHS) Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/09/2021	02/10/2021	150.31 X 151.47 X 149.58	22769	8.956	773.3	34.0	33.4
2	Cement Concrete Pavement	M30	04/09/2021	02/10/2021	151.37 X 150.05 X 151.96	22713	8.756	736.1	32.4	
3	Cement Concrete Pavement	M30	04/09/2021	02/10/2021	150.05 X 150.01 X 151.07	22509	8.540	760.0	33.8	

* The results obtained are satisfactory as per standard requirements.

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CIVIL PRO Sig Date BANGALORE

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 13/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri.B B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 08-09-21

Customer ID : Cement Concrete Pavement (1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	06/09/2021	13/09/2021	151.01 X 150.39 X 149.42	22710	8.654	584.0	25.7	25.7
2	Cement Concrete Pavement	M30	06/09/2021	13/09/2021	149.24 X 150.59 X 149.57	22474	8.665	596.1	26.5	
3	Cement Concrete Pavement	M30	06/09/2021	13/09/2021	150.59 X 150.45 X 149.17	22656	8.829	566.0	25.0	

• The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-21-30** **Date: 06/10/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sndeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 11-09-21

Customer ID : Cement Concrete Pavement (Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	08/09/2021	06/10/2021	151.16 X 150.93 X 150.07	22815	8.956	775.6	34.0	33.0
2	Cement Concrete Pavement	M30	08/09/2021	06/10/2021	150.25 X 149.37 X 150.07	22442	8.756	718.3	32.0	
3	Cement Concrete Pavement	M30	08/09/2021	06/10/2021	149.99 X 149.68 X 151.49	22450	8.540	743.2	33.1	

• The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-RW-2021-09-21-30** **Date: 03-09-21**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri.B.B Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 01-09-21

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 01-09-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

• The results obtained are satisfactory as per standard requirements.

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FOR CIVIL Pro.
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2021-09-21-30** **Date: 11-09-21**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Aditya Nagara 1st & 2nd Stage and Surrounding areas in Attur Ward No-03.

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 08-09-21

Type of Mix : BC(Bitumenous Concrete)

Date of test : 08-09-21

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

• The results obtained are satisfactory as per standard requirements.

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DR KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-09-21-30** **Date: 16-08-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.4	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

• The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 22/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Doddabettahalli Layout and Surrounding areas in Attur Ward no-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 27-08-21

Customer ID : Drain Bottom Slab Concrete (Vishal Mart Beside Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/08/2021	22/09/2021	151.17 X 151.99 X 149.08	22977	8.815	535.6	23.3	23.4
2	Drain Bottom Slab Concrete	M20	25/08/2021	22/09/2021	150.97 X 150.35 X 151.34	22699	8.153	520.9	22.9	
3	Drain Bottom Slab Concrete	M20	25/08/2021	22/09/2021	149.52 X 151.10 X 150.07	22592	8.523	541.8	24.0	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2021-09-21-30** **Date: 01-09-21**
Project Name	:	Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12) **Improvements and Development of Roads at Doddabettahalli Layout and Surrounding areas in Attur Ward no-03**
Agency	:	Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sndeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22
Date of Receipt	:	30-08-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	30-08-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2021-09-21-30 **Date: 16-09-21**
Project Name	:	Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12) **Improvements and Development of Roads at Doddabettahalli Layout and Surrounding areas in Attur Ward no-03**
Agency	:	Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22
Date of Receipt	:	13-09-21
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	13-09-21
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

Lab ID : **CP-RW-2021-09-21-30** **Date: 22-09-21**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2021-09-21-30 **Date: 22-09-21**

Project Name :

Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Roads at Doddabettahalli Layout and Surrounding areas in Attur Ward no-03

Agency : Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sndeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 21-09-21

Type of Mix : Tack coat

Date of test : 21-09-21

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-21-30** **Date: 28/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Balance Roads in Yelahanka 4th Phase in Attur Ward no-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 02-09-21

Customer ID : PCC (2nd cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	31/08/2021	28/09/2021	151.91 X 151.87 X 149.72	23071	8.134	412.9	17.9	17.6
2	PCC	M15	31/08/2021	28/09/2021	150.22 X 151.07 X 151.35	22694	8.322	401.0	17.7	
3	PCC	M15	31/08/2021	28/09/2021	151.62 X 149.94 X 149.05	22733	8.880	392.5	17.3	

• The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 31/08/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Balance Roads in Yelahanka 4th Phase in Attur Ward no-03

Agency : Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 26-08-21

Customer ID : Drain Bottom Slab Concrete (6th Cross Road (Behined Vivekandha Park or Subbu Bekary road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/08/2021	31/08/2021	150.78 X 149.07 X 149.66	22477	8.258	408.2	18.2	18.2
2	Drain Bottom Slab Concrete	M20	24/08/2021	31/08/2021	151.72 X 150.14 X 150.29	22779	8.841	418.4	18.4	
3	Drain Bottom Slab Concrete	M20	24/08/2021	31/08/2021	151.07 X 150.14 X 149.82	22682	9.080	411.7	18.2	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 04/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Balance Roads in Yelahanka 4th Phase in Attur Ward no-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 30-08-21

Customer ID : Drain Side Wall Concrete (KSSIDC Industrial Estate- 1st cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	28/08/2021	04/09/2021	149.11 X 149.00 X 150.75	22217	8.258	415.3	18.7	18.4
2	Drain Side Wall Concrete	M20	28/08/2021	04/09/2021	150.19 X 150.27 X 151.79	22570	8.841	410.5	18.2	
3	Drain Side Wall Concrete	M20	28/08/2021	04/09/2021	150.72 X 150.06 X 151.55	22617	9.080	414.4	18.3	

• The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 **Date: 27/09/2021**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Balance Roads in Yelahanka 4th Phase in Attur Ward no-03

Agency : Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 01-09-21

Customer ID : Culvert Bottom Slab Concrete (4th Phase- Library Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete (4th Phase-Library Road)	M20	30/08/2021	27/09/2021	151.43 X 151.18 X 150.02	22893	8.815	538.9	23.5	23.0
2	Culvert Bottom Slab Concrete (4th Phase-Library Road)	M20	30/08/2021	27/09/2021	150.22 X 151.83 X 151.38	22808	8.153	510.1	22.4	
3	Culvert Bottom Slab Concrete (4th Phase-Library Road)	M20	30/08/2021	27/09/2021	150.11 X 150.97 X 151.49	22661	8.523	521.9	23.0	

• The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Lab ID : CP-RW-2021-09-21-30 **Date: 21-09-21**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.4	14.4	3.02	97.0	90-100
19	24	38.4	8.05	91.9	71-95
13.2	120	158.4	33.21	66.8	56-80
4.75	96	254.4	53.33	46.7	38-54
2.36	80	334.4	70.10	29.9	28-42
0.3	62.4	396.8	83.19	16.8	7-21
0.075	52.8	449.6	94.26	5.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.8	14.8	3.11	96.9	90-100
19	24	38.8	8.15	91.8	71-95
13.2	120	158.8	33.36	66.6	56-80
4.75	96	254.8	53.53	46.5	38-54
2.36	78	332.8	69.92	30.1	28-42
0.3	62.4	395.2	83.03	17.0	7-21
0.075	52.8	448	94.12	5.9	2-8

• The results obtained are satisfactory as per standard requirements.

CIVIL Pro ..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2021-09-21-30** **Date: 16-09-21**

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Balance Roads in Yelahanka 4th Phase in Attur Ward no-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 13-09-21

Type of Mix : BC(Bitumenous Concrete)

Date of test : 13-09-21

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

• The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro BANGALORE Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Lab ID : CP-RW-2021-09-21-30

Date: 22-09-21

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	55	452	96.0	4.0	4-10

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2021-09-21-30

Project Name : Date: 22-09-21

Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Development of Balance Roads in Yelahanka 4th Phase in Attur Ward no-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, IIIG, B Sector, Next to Andrabank, Major Sndeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 21-09-21

Type of Mix : Tack coat

Date of test : 21-09-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Date..... BANGALORE

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B.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2021-09-21-30**

Date: 30-08-21

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Asphalting to Balance Roads of Muneshwara Layout and Surrounding areas in Attur Ward No-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 25-08-21

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/08/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Date..... BANGALORE

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Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/10/2021

Lab ID	:	**CP-2021-09-21-30**
Project Name	:	Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12) **Improvements and Asphalting to Balance Roads of Muneshwara Layout and Surrounding areas in Attur Ward No-03**
Agency	:	Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22
Date of Receipt	:	06-09-21
Customer ID	:	PCC (9th Cross Road)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	04/09/2021	02/10/2021	150.89 X 149.68 X 150.52	22586	8.134	395.0	17.5	17.5
2	PCC	M15	04/09/2021	02/10/2021	150.18 X 151.00 X 151.88	22677	8.322	394.1	17.4	
3	PCC	M15	04/09/2021	02/10/2021	151.81 X 149.85 X 151.43	22749	8.880	398.0	17.5	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-21-30**

Date: 30/08/2021

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Asphalting to Balance Roads of Muneshwara Layout and Surrounding areas in Attur Ward No-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 25-08-21

Customer ID : Drain Bottom Slab Concrete (7th B Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/08/2021	30/08/2021	149.84 X 150.53 X 151.37	22556	8.258	423.9	18.8	18.5
2	Drain Bottom Slab Concrete	M20	23/08/2021	30/08/2021	151.18 X 149.24 X 150.92	22563	8.841	416.3	18.4	
3	Drain Bottom Slab Concrete	M20	23/08/2021	30/08/2021	149.83 X 150.64 X 151.25	22571	9.080	409.7	18.2	

• The results obtained are satisfactory as per standard requirements.

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Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-09-21-30**

Date: 21/09/2021

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Asphalting to Balance Roads of Muneshwara Layout and Surrounding areas in Attur Ward No-03

Agency : Sri.B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 26-08-21

Customer ID : Drain Side Wall Concrete (VEERASAGARA ROAD)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	24/08/2021	21/09/2021	150.83 X 151.48 X 151.63	22848	8.815	537.8	23.5	23.4
2	Drain Side Wall Concrete	M20	24/08/2021	21/09/2021	151.70 X 151.04 X 151.33	22913	8.153	526.4	23.0	
3	Drain Side Wall Concrete	M20	24/08/2021	21/09/2021	150.79 X 150.07 X 149.21	22629	8.523	535.4	23.7	

• The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/09/2021

Lab ID : CP-2021-09-21-30

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Improvements and Asphalting to Balance Roads of Muneshwara Layout and Surrounding areas in Attur Ward No-03

Agency : Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sndeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK D/EPMT-01/W.O/44/2021-22

Date of Receipt : 01-09-21

Customer ID : Culvert Bottom Slab Concrete (11th cross 2nd Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	30/08/2021	27/09/2021	149.40 X 150.30 X 150.85	22455	8.815	531.3	23.7	23.1
2	Culvert Bottom Slab Concrete	M20	30/08/2021	27/09/2021	149.56 X 149.74 X 150.98	22395	8.153	496.9	22.2	
3	Culvert Bottom Slab Concrete	M20	30/08/2021	27/09/2021	150.35 X 149.64 X 151.19	22498	8.523	527.3	23.4	

• The results obtained are satisfactory as per standard requirements.

CIVIL Pro
Date

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-56

End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 Date: 09/09/2021

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Agency : **Improvements and Asphalting to Balance Roads of Muneshwara Layout and Surrounding areas in Attur Ward No-03**
Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, IIIG, B Sector, Next to Andrabank, Major Snadeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/44/2021-22

Date of Receipt : 04-09-21

Customer ID : Culvert Side Wall Concrete (4th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	02/09/2021	09/09/2021	151.11 X 149.45 X 149.42	22583	8.258	408.8	18.1	18.1
2	Culvert Side Wall Concrete	M20	02/09/2021	09/09/2021	151.77 X 149.68 X 151.85	22717	8.841	413.6	18.2	
3	Culvert Side Wall Concrete	M20	02/09/2021	09/09/2021	149.19 X 149.53 X 149.88	22308	9.080	404.5	18.1	

• The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-09-21-30 Date: 30/09/2021

Project Name : Comprehensive Development of Roads and Drains at Kaveri Layout, AMS Layout, Aditya Nagara 1st and 2nd stage Doddabettahalli, Yelahanka 4th Phase and Muneshwara Layout and Surrounding Areas in Ward No 03 of Yelahanka Division (Package No 12)

Agency : **Improvements and Asphalting to Balance Roads of Muneshwara Layout and Surrounding areas in Attur Ward No-03**

Customer's Reference : Sri B.B.Umesha M/s SMLP Asphalts, No:1265, Ground Floor, HIG, B Sector, Next to Andrabank, Major Sandeep Unnikrishan Road, Yelahanka New Town, Bangalore-560064

Date of Receipt : BBMP/EE/YNK D/EPMT-01/W.O/44/2021-22

Customer ID : 04-09-21

Sample Type /Size : Culvert Side Wall Concrete (4th Cross Road)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 28 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 30/09/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	149.65 X 150.75 X 150.01	22560	8.815	519.7	23.0	22.8
2	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	149.56 X 149.84 X 149.68	22411	8.153	495.4	22.1	
3	Culvert Side Wall Concrete	M20	02/09/2021	30/09/2021	149.24 X 151.80 X 149.28	22655	8.523	525.7	23.2	

• The results obtained are satisfactory as per standard requirements.

CIVIL Pro Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****